

Patent claims

1. A breast cap insert for a breast pump, which breast cap insert is designed to lie on an areola of a female breast during use, said breast cap insert comprising a frustoconical base body (1) with a large rear opening (13) and a small front opening (14), said base body (1) being designed to be received in a funnel of a breast cap (6), characterized in that the frustoconical base body (1) is at least partly made of a heat-accumulating and/or heat-conducting material and is warmed during use, this warming not exclusively taking place through transfer of body temperature from the female breast.
2. The breast cap insert as claimed in claim 1, in which the base body (1) has an inner cone wall (10) and outer cone wall (11) which form a chamber (12), the chamber (12) being provided with a heat-accumulating and/or heat-conducting filler medium (15).
3. The breast cap insert as claimed in claim 2, in which at least the inner cone wall (10) is elastically deformable.
4. The breast cap insert as claimed in either of claims 2 and 3, in which the filler medium (15) is a gel.
5. The breast cap insert as claimed in claim 1, in which the base body (1) is provided with at least one resistance heating element (3), and the insert has electrical contact means (4) connected to the at least one resistance heating element (3).

6. The breast cap insert as claimed in claim 1, provided with trigger means (7) for activating a heating system (9) arranged in the funnel of the breast cap (6) during use.
- 5 7. The breast cap insert as claimed in one of claims 1 through 6, with means (2) for securing the base body (1) in the funnel of the breast cap (6).
- 10 8. The breast cap insert as claimed in claim 7, in which the means for securing the base body (1) is a collar (2) surrounding the large opening (13).
- 15 9. A breast cap insert for a breast pump, which breast cap insert is designed to lie on an areola of a female breast during use, said breast cap insert comprising a frustoconical base body (1) with a large rear opening (13) and a small front opening (14), said base body (1) being designed to  
20 be received in a funnel of a breast cap (6), characterized in that at least the base body (1) is made of a foam or a foam-like material, in particular of polyurethane foam or a polyolefin foam.
- 25 10. A breast cap of a breast pump for use with a breast cap insert as claimed in claim 1, in which the breast cap has a heating system (9) for warming the breast cap insert fitted in the breast  
30 cap.
11. A breast cap of a breast pump for use with a breast cap insert as claimed in claim 5, in which the breast cap has electrical contact means (5)  
35 for making contact with contact means (4) of the insert.
12. A breast cap of a breast pump for use with a breast cap insert as claimed in claim 6, in which

the breast cap has a heating system (9) for warming the insert fitted in the breast cap, and has switch means (8) which are connected to the heating system (9) and make contact with the trigger means (7) of the insert.